OM nucleic - nucleic search, using sw model

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                Copyright  GenCore version 5.1.3
                Copyright (c) 1993 - 2002 Compugen Ltd.

Run on:         December  6, 2002, 23:36:56 ; Search time 52 Seconds
                                              (without alignments)
                                              11435.527 Million cell updates/sec

Title:          US-10-025-514-15
Perfect score:  1525
Sequence:       1 tctagaccatggaagaccct.........ccagtcaaggcctagtcgac 1525

Scoring table:  IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched:       350425 seqs, 19496369 residues

Total number of hits satisfying chosen parameters:    700850

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :      Published_Applications_NA:*
                1:  /cgn2_6/ptcdata/1/pubpna/US07_PUBCOMB.seq:*
                2:  /cgn2_6/ptcdata/1/pubpna/PCT_NEW_PUB.seq:*
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               14:  /cgn2_6/ptcdata/1/pubpna/US60_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Query Match Length	DB	ID	Description
1	437	28.7	1345	10	US-09-782-378A-13	Sequence 13, Appl
2	429	28.1	1352	10	US-09-964-824A-545	Sequence 545, App
3	429	28.1	1371	10	US-09-964-824A-544	Sequence 544, App
4	407	26.7	1390	10	US-09-765-231A-19	Sequence 19, Appl
5	222.8	14.6	594	10	US-09-964-824A-582	Sequence 582, App
6	222.8	14.6	594	10	US-09-954-456-1989	Sequence 1989, Ap
7	219.8	14.4	1422	10	US-09-865-812-1	Sequence 1, Appli
8	219.8	14.4	1422	10	US-09-880-107-2090	Sequence 2090, Ap
9	213.4	14.0	1714	10	US-09-917-800A-1421	Sequence 1421, Ap
10	193	12.7	1872	10	US-09-880-107-2257	Sequence 2257, Ap
11	190.8	12.5	1245	10	US-09-755-665-13	Sequence 13, Appl
12	182.6	12.0	2051	10	US-09-917-800A-1325	Sequence 1325, Ap
13	161	10.6	391	10	US-09-960-352-12287	Sequence 12287, A
14	146.4	9.6	430	10	US-09-960-352-10531	Sequence 10531, A
15	135.8	8.9	444	10	US-09-960-352-14649	Sequence 14649, A
16	135.6	8.9	418	10	US-09-960-352-7066	Sequence 7066, Ap
17	134.2	8.8	1710	9	US-09-912-628-2	Sequence 2, Appli
18	126.2	8.3	1632	9	US-09-912-628-3	Sequence 3, Appli
19	125.4	8.2	430	10	US-09-960-352-5191	Sequence 5191, Ap
20	124.2	8.1	388	10	US-09-960-352-7567	Sequence 7567, Ap
21	123.2	8.1	439	10	US-09-960-352-10330	Sequence 10330, A
22	123	8.1	2089	9	US-09-992-598-409	Sequence 409, App
23	123	8.1	2089	9	US-09-989-293A-409	Sequence 409, App
24	123	8.1	2089	10	US-09-989-722-409	Sequence 409, App
25	123	8.1	2089	10	US-09-989-723-409	Sequence 409, App
26	123	8.1	2089	10	US-09-989-279-409	Sequence 409, App
27	123	8.1	2089	10	US-09-988-727-409	Sequence 409, App
28	123	8.1	2089	10	US-09-988-731-409	Sequence 409, App
29	123	8.1	2089	10	US-09-989-732-409	Sequence 409, App
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33	123	8.1	2089	10	US-09-993-604-409	Sequence 409, App
34	123	8.1	2089	10	US-09-990-456-409	Sequence 409, App
35	123	8.0	2089	10	US-09-989-721-409	Sequence 409, App
36	121.8	8.0	1585	10	US-09-765-231A-18	Sequence 18, Appl
37	120	7.9	421	10	US-09-960-352-1559	Sequence 1559, Ap
38	118.4	7.8	433	10	US-09-960-352-13206	Sequence 13206, A
39	118.2	7.8	541	10	US-09-864-761-17682	Sequence 17682, A
40	116.4	7.6	445	10	US-09-960-352-5918	Sequence 5918, Ap
41	115.8	7.6	412	10	US-09-960-352-1792	Sequence 1792, Ap
42	114.8	7.5	398	10	US-09-960-352-3413	Sequence 3413, Ap
43	113.4	7.4	418	10	US-09-960-352-2321	Sequence 2321, Ap
44	113	7.4	395	10	US-09-960-352-12468	Sequence 12468, A
45	113	7.4	403	10	US-09-960-352-11740	Sequence 11740, A

ALIGNMENTS

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RESULT 1
US-09-782-378A-13

; Sequence 13, Application US/09782378A
; Patent No. US2002010273A1
; GENERAL INFORMATION:
;  APPLICANT: Hearing, Patrick
;  APPLICANT: Bahou, Wadie
;  APPLICANT: Sandalon, Ziv
;  APPLICANT: Gnatenko, Dmitri
;  TITLE OF INVENTION: Adenoviral Vectors
;  FILE REFERENCE: STONYB-04970
;  CURRENT APPLICATION NUMBER: US/09/782,378A
;  CURRENT FILING DATE: 2001-02-12
;  PRIOR APPLICATION NUMBER: 60/237,747
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 27
;  SOFTWARE: PatentIn version 3.0
;  SEQ ID NO 13
;  LENGTH: 1345
;  TYPE: DNA
;  ORGANISM: Homo sapiens
US-09-782-378A-13

Query Match             28.7%;  Score 437;  DB 10;  Length 1345;
Best Local Similarity   60.6%;  Pred. No. 6e-101;
Matches  716;  Conservative  0;  Mismatches  465;  Indels  0;  Gaps  0;

Qy     12  GAAGACCCTCAAGGCGACGCGCTCAAAAAACCGACACCAGTCATCACGACCAAGACCAT   71
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Db     84  GAGGATCCCCAGGGAGATGCTGCCCAGAGACAGCATCCCCACCATGATCAGGATCAC  143

Qy     72  CCGACTTTTAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTTTCTTTGTTTGTATAGACAA  131
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Db    144  CCAACCTTCAACAAGATCACCCCCAACCTGGCTGAGTTGCCCTTCAGCCTATACCGCCAG  203

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Db    204  CTGGCACACCAGTCCAACAGCACACCAATATCTTCTTCTCCCCAGTGACCATCGCTACAGCC  263

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Qy  252  AACTTTAATTTGACCGAAATCCCAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTGTTG  311
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Db  324  AATTTCAACCTTCACGAGATCCGGAGATTCCGAGATCCATGAATGGCTTCCAGGAACTCCTC  383

Qy  312  AGAACTTTGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTGTAACGGTTTATTTTG  371
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Db  384  CGTACCCTAAACCAGCGAGCTCAGTTGACCAGTGACGACGTCCAGCGTTATTTTG  443

Qy  372  TCTGAAGGTTAAAATTGGTTGACAAATTCCTAGAGACGCTCAAGAAACTATATCATAGT  431
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Db  444  AGCGAGGGCCTGAAGCTAGTGGATAAGTTTTGGGGATGTTAAAAAGTTGTACCACTCA  503

Qy  432  GAGGCTTTTACCGTTAATTTGGTGATACTGAGGAAGCTAAAAAGCAAATTAATGATTAT  491
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Qy  492  GTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAATTAGAGATCGTGATACC  551
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Db  564  GTGGAGAAGGGTACTCAAGGGAAAAATTGTGGATTTGGTCAAGGAAGGAAACCCTTGAAGTC  623

Qy  552  GTCTTCGCCACTAGTTAACTATATATTTTTTCAAGGGTAAGTGGAACGTCCTTTCGAGGTT  611
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Db  624  GTTTTTGCTCGTCGGTGAATTACATCTTCTTTAAAGGCAAATGGGAGGACACCTTTTGAAGTC  683

Qy  612  AAAGATACTGAAGAGAGAAGAGATTTCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATG  671
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Qy  672  ATGAAAAGACTGGGTATGTTCAATATTCAAAAAATTAAGTTCTTGGGTCTTA  731
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Qy  732  TTAATGAAGTATTTAGGTAACGCTACTGCTATTTTTTTTTTTTACCGACGAAGGTAAGCTT  791
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Db  804  CTAATGAAATACCTGGGCAATGCCACCGCCACCGCCATCTGCCATTCCGATGAGGGAAACTA  863

Qy  792  CAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTTAGAGAACGAGGAT  851
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Db  864  CAGCACCTGGAAAATGAACTCACCCACGATATCATCAACACGATATCACCAAGTTCCTGGAAAATGAAGAC  923

Qy  852  CGTCGTAGCGCTTCTCGCACCTGCCAAAGTTAAGTACCGGTACTTACCGACTTAAAA  911
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Db  924  AGAAGGTCTGCCAGCTTACATTTACCCAACTGTCCATTACTGGAACCTATCTGAATCTGAAG  983

Qy  912  TCTGTTTTAGGCCAGTTAGGTATTACCAAAAGTTTTTTCTAACGGTGCCGATTTGAGTGGT  971
          ||||| |||||| ||  | || |||  |  | |  || ||   || || |  ||| |
Db  984  AGCCTCTGGGTCAACTGGGCATCAGTGGGGCTTGCAGCGGTCCTGACCCTCGTCCCGGG  1043

Qy  972  GTTACTGAAGAGCTCCATTAAATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATT  1031
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Db  1044  GTCACAGAGGAGGCACCCGTGAGCTCTCCAAGGCCGTGCATAAGGCCGTCATAAGCACCATC  1103

Qy  1032  GATGAAAAGGGTACCGAGGCCGCCGGCCTATGTTCCTCGGAGAGCTATTCCAATGAGCATT  1091
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Db  1104  GACGAAGGGGACTGAAGCGTGCTGGGGCCATGTTAGAGGCCATAACCAATGTCTATC  1163

Qy  1092  CCACCGAGAGTTAAATTTAATAAACCATTCGTTTTCTGATGATCGAGCAGAACACTAAA  1151
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Db  1164  CCCCAGAGGTCAAGTTCAACAACACCCTTGTCTGCTTCTTTAATGATTGAACAAAAATACCAAG  1223

Qy  1152  AGCCCATTGTTATGGGTAAGGTTGTCAACCCAACTCAGAA  1192
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Db  1224  TCTCCCCTCTTCATTGGGAAAAGTGGTGAATCCATCCTTTTAAAGGCCAAAA  1264
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RESULT 2
US-09-964-824A-545
; Sequence 545, Application US/09964824A
; Patent No. US2002102531A1
; GENERAL INFORMATION:
;   APPLICANT: Horrigan, Stephen
;   TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu

US-09-964-824A-545

Query Match   28.1%; Score 429; DB 10; Length 1352;
Best Local Similarity   60.28%; Pred. No. 6.3e-99;
Matches 711; Conservative   0; Mismatches 470; Indels   0; Gaps   0;

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Qy   12  GAAGACCCTCAAGGCGCACGCCGCTCAAAAAACCGACCAGTCATCACGACCAAGACCAT  71
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Qy   72  CCGACTTTTAATAAAATTACTCAAATTTAGCCGAATTGCTTTTCTTTGTATAGACAA  131
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Db  152  CCAACCTTCAACAGATCACCCCCAACCTGGCTGAGTTCGCCTATACCGCCAG  211

Qy  132  TTAGCTCATCAAAGTAATTCTACTACATCTTTTTTAGTCCTGTTTCTATTGCCACTGCT  191
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Db  212  CTGGCACCACCAGTCCAACAGCACCAATATCTTCTTCTCCCCAGTGACGCATCGCTACAGCC  271

Qy  192  TTCGCCATGTGAGTTTAGTACTAAAGCCGATACCCATGACGAGATTTTAGAAGGTTTA  251
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Db  272  TTTGCAATGCTCTCCCTGGGGACCAAGGCTGACACTGCACTGAAATCCTGGAGGGCCTG  331

Qy  252  AACTTTAATTTGACCGAAATCCCAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTGTTG  311
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Db  332  AATTTCAACCTCACGAGAATTCCGAGGGCTCAGATCCATGAAGGCTTCCAGGAACTCCTC  391

Qy  312  AGAACTTTGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTGTAACGGTTTATTTTG  371
          | ||| || || || |  |  ||  ||  ||  ||  ||  || || ||||
Db  392  CGTACCCTCAACCAGCCAGCAGCTCCAGTTGACCAGTGACGACGTCAAGAACATATCATAGT  451

Qy  372  TCTGAAGGTTAAAATTGGTTGACAAATTCCTAGAGACGCTCAAGAAACTATATCATAGT  431
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Qy  432  GAGGCTTTTACCGTTAATTTGGTGATACTGAGGAAGCTATTCCAATGAGCATT  491
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Qy  492  GTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTAGTTAAAGAATTAGAGATCGTGATACC  551
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Db  572  GTGGAGAAGGGTACTCAAGGGAAAAATTGTGGATTTGGTCAAGGAAGGAAACCCTTGAAGTC  631

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Db  632  GTTTTTGCTCGTCGGTGAATTACATCTTCTTTAAAGGCAAATGGGAGGACACCTTTTGAAGTC  691

Qy  612  AAAGATACTGAAGAGAGAAGAGATTTCATGTTGATCAAGTTACTACTGTCAAATGTTCCAATG  671
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Db  692  AAGGACACCGAGGAGAGGACAGCTTCCACGCTGGACCACCGTGAAGGTGCCCTATG  751

Qy  672  ATGAAAAGACTGGGTATGTTCAATATTCAAAAAATTAAGTTCTTGGGTCTTA  751
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Db  752  ATGAAGCGTTTAGGCATGTTAACATCCCAGCACTGTGTCCAGCTGGGTGCTG  811
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Db  231 CTGGCACCAGTCCAACAGCACCAATATCTTCTTCTCCCCAGTCAGCATCGCTACAGCC    290
Qy  192 TTCGCCATGTTGAGTTTGAGTTAGGTACTAAAGCCGATACGAGAGATTTTAGAAGGTTTA  251
Db  291 TTTGCAATGTCTCCCCTGGGGACCAAGCGTCACACTCACGATGAAATCCTGGAGGGCCTG  350
Qy  252 AACTTTAATTTGACCGAAAATCCAGAGACCCAAATTCACGAGAGGTTTCAAGTAGTTGTTG 311
Db  351 AATTTCAACCTCACGGAGATTCCGGAGGCTCAGATCCATGAAGGCTTCAGGGAACTCCTC  410
Qy  312 AGAACTTTGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTTTTATTTTG  371
Db  411 CGTACCCTCCAACCAGCAGCCAGCTCCAGCTGACAAATTCCTAGAGACGTCAAGAACTATATCATAGT 470
Qy  372 TCTGAAGGTTTAAAATTGGTTGACAAATTGGATGGATAGTTGGAATAGTTTAAAAAGTTGTACCACTCA 431
Db  471 AGCGAGGGCCTGAAGCTAGTGGATAAGTTTTGGGATGTTAAAAAGTTGTACCACTCA    530
Qy  432 GAGGCTTTACCGTTAATTTGGTGATACTAGGAGAAGCTAAAAGCAAATTAATGATTAT    491
Db  531 GAAGCCTTCACTGTCAACTTCGGGGACACGACCATCGTTGACCTAGTTAAAGAATTAGAGATCGTGATACC 590
Qy  492 CCACCAGAAGTTAAATTAATAAACCATTCGTTTTCGTGATGATGAGCAGAGAACACTAAA  551
Db  591 GTGGAAGAGGTACTCAAGGGAAAATGTGGATTTGGTTGGTCAGGAGCTTGACAGAGACACA 650
Qy  552 GTCTTCGCACTAGTTAACTATATATTTTTTCAAGGTAAGTAGCAAGTCCTTTCGAGGTT   611
Db  651 GTTTTTGCTCTGGTGAATTACATCTTCTTTAAAGGCAAATGGAGCAAATGGGAGAGACCCCTTGAAGTC 710
Qy  612 AAAGATACTGGAGAGGAAGAGATTTTCATGTTGATCAAGTTACTACTGTCAAAGTTCCAATG 671
Db  711 AAGGACACCGAGGAGGAGGAGGACTTCCACGTGGACCAGGTGACCACCGTGAAGGTGCCTATG 770
Qy  672 ATGAAAAGACTGGGTATGTTCAATATTCAACATTGCAAAAAATTAAGTTCTTGGGTCTTA  731
Db  771 ATGAAGCGTTTAGGCATGTTAACATCCAGCACTGTAGAAGCTGTCCAGCTGGGTGCTG    830
Qy  732 TTAATGAAGTATTAGGTAACGCTACTGCTATTTTTTTTACCAGACGAAGGTAAGCTT     791
Db  831 CTGATGAAATACCTGGGCAATGCCACCGCCATCTTCTTCCTGCCTGATGAGGGGAAACTA  890
Qy  792 CAACATTTAGAGAATGAGTTGACTCATGACATTATTACTAAATTTTAGAGAACGAGGAT   851
Db  891 CAGCACCTGGAAAATACCTGGGCATGTCCTGGGGGCCATGTTTTTAGAGGCCATGTTTAGAGGCCATTAAGGC 950
Qy  852 CGTCGTAGCGCTTCTCTGCACCTGCCCAAGTTAAGTATCACCGGTACTTACGACTTAAAA 911
Db  951 AGAAGGTCTGCCAGCTTACAAACAACTGTCCATTACCAAAACTGTCCATTACTGGAACCTATGATCTGAAG 1010
Qy  912 TCTGTTTTAGGCCAGTTAGGTATTACCAAAGTTTTTCTAACGGTGCCGATTTGAGTGGT  971
Db 1011 AGCCTCCTGGGTCAACTGGGCATCACAAATGGGCTGAACCTCTCCGGG            1070
Qy  972 GTTACTGAAGAAGCTCCATTAAAATTGAGTAAAGCTTCCACAAAGCGTCTTCACAACTATT 1031
Db 1071 GTTACTGAAGAAGCTCCATTAAAATTGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATT  1130
Qy 1032 GATGAAAAGGGTACCGAGGCCGGCCGGCTATGTGTTCCTGGAAGCTATTCCAATGAGCATT 1091
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Qy 1092 CCACCAGAAGTTAAATTAATAAACCATTCGTTTTCGATGATCGAGCAGAACACTAAA    1151
Db 1191 CCCCCGAGGTCAAGTCAACAAACCCTTGCTCTTCTAATGATTGAACAAAATACCAAG     1250
Qy 1152 AGCCCATTGTTTATGGGTAAGGTTGTCAACCCAACTCAGAA 1192
Db 1251 TCTCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCAAAA 1291
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RESULT 3
US-09-964-824A-544

; Sequence 544, Application US/09964824A
; Patent No. US2002102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu[re]
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 544
; LENGTH: 1371
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1371)
; OTHER INFORMATION: n=a,t,g or c
US-09-964-824A-544

Query Match 28.1%; Score 429; DB 10; Length 1371;
Best Local Similarity 60.2%; Pred. No. 6.3e-99;
Matches 711; Conservative 0; Mismatches 470; Indels 0; Gaps 0;

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Qy   12 GAAGACCCTCAAGGCGACGCCGCTCAAAAACCGACCAGTCATCACGACCAAGACCAT   71
Db  111 GAGGATCCCCAGAGATGCTGCCCAGAGACAGACATCACCACCACCATGATCAGGATCAC 170
Qy   72 CCGACTTTTAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTTTCTTTGTATAGACAA 131
Db 1251 TCTCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCAAAA 1291
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RESULT 4
US-09-765-231A-19
; Sequence 19, Application US/09765231A
; Patent No. US2002019452A1
; GENERAL INFORMATION:
; APPLICANT: Searle/Monsanto
; APPLICANT: Phippard, Deborah
; APPLICANT: Vasanthakamur, Geetha
; APPLICANT: Dotson, Stanton
; APPLICANT: Ma, Xiao-Jun
; TITLE OF INVENTION: Osteoarthritis tissue-derived nucleic acids, polypeptides,
; TITLE OF INVENTION: vectors, and cells
; FILE REFERENCE: SO-3221 PR
; CURRENT APPLICATION NUMBER: US/09/765,231A
; CURRENT FILING DATE: 2001-01-18
; NUMBER OF SEQ ID NOS: 82
; SEQ ID NO 19
; LENGTH: 1390
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-765-231A-19

Query Match   26.7%;   Score 407;   DB 10;   Length 1390;
Best Local Similarity   60.1%;   Pred. No. 2.3e-93;
Matches 711;   Conservative   0;   Mismatches 470;   Indels   2;   Gaps   2;

Qy   12 GAAGACCCTCAAGGCGACGGCCGCTCAAAAAACCGACACCAGTCATCACGACCAAGACCAT 71
          ||||| || || |||||| | ||| ||| |||||||||||| ||| || || |||||
Db   107 GAGGACCCCCAGGGAGGATGCTGCCCAGAAGACAGATACCATCCCACCATGATCAGGATCAC 166

Qy   72 CCGACTTTTAATAAAATTACTCCAAATTTAGCCGAATTTGCTTTCTTTGTATAGACAA 131
          | ||| || ||| || ||||| |||| ||||| |||| || || || ||
Db   167 CCAACCTTCAACAGATCACCCCCAACCTGGCTGAGTTCGCCTATACCGCCAG 226

Qy   132 TTAGCTCATCAAAGTAATTCTACTAACATTTTTTTAGTCCTGTTCTATTGCCACTGCT 191
          | ||||| |||| ||| || ||| ||||||| ||| || || || ||||
Db   227 CTGGCACACCAGTCCAACAGCACCACCAATATCTTCTTCTCCCCAGTGACCAGATCGCTACAGCC 286

Qy   192 TTCGCCATG-TTGAGTTTAGGTACTAAAGCCGATACCCAGCCCATGACGAGATTTTAGAAGTTT 250
          || || || ||||| || || ||||| ||||| || || ||| ||| ||||| ||||
Db   287 TTTGCAATGCTCTCCCGGGGACCAAGGCTAGCACACTCACGATGAAATCCTGGAGGGCCT 346

Qy   251 AAACTTTAATTGACGAGAATCCCAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTGTT 310
          ||| ||| || || ||| ||| || ||||| |||||| || ||||| ||| || ||
Db   347 GAATTCAACCTCACGGAGATTCCGGAGGCTCAGATCCATGAGGCTTCCAGGAACTCCT 406

Qy   311 GAGAACTTTGAATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTTATTTTT 370
          || || || |||| ||||| | || ||| ||| ||||| || ||| || |||| ||
Db   407 CCGTACCCTCAACCAGCCAGAGCAGCAGCAGCTCCAGCTGACCACCGCCAATGGCCTGTTCCT 466

Qy   371 GTCTGAAGGTTAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGAAACTATATCATAG 430
          | ||||| |||||| || || ||||| ||||| || || ||||| ||||| ||| ||
Db   467 CAGCGAGGGGCCTGAAGCTAGTGGATAAGTTTTTGGAGGATGTTAAAAAGTTGTACCACTC 526

Qy   431 TGAGGCTTTTACCGTTAAATTTGGTGATACTGAGGAAGCTAAAAAGCAAATTAATGATTA 490
          || || || || || || ||||| || || || ||||| ||||| ||||| ||||||
Db   527 AGAAGCCTTCACTGTCAACTTCGGGGACACGGAGGAAGCAGAAAACAGATCAACGATTA 586

Qy   491 TGTTGAGAAAGGCACCCAGGTAAGATCGTTGACCTAGTTAAAGAATTAGATCGTGATAC 550
          ||||| || ||||| || |||||| ||| |||| || |||| ||||| || |||||
Db   587 CGTTGGAGAAGGGTACTCAAGGGAAAATTGTGGATTTGCTCAAGGAGCTTGACAGAGACAC 646

Qy   551 CGTCTTCCGCACTAGTTAACTATATATTTTTTTTCAAGGGTAAGTGGGAACGTCCTTTCGAGGT 610
          || || || || || || | ||||| ||||| || ||||| |||| || || || |||||
Db   647 AGTTTTTGCTCTCTGGTGAATTACATCTTCTTTTAAAGGCAAATGGCAAATCTGCCCAGTGCCTTAGA 706

Qy   611 TAAAGATACTGAAGAGGAAGATTTCATGTGATCAAGTTACTACTGTCAAAGTTCCAAT 670
          | ||||| || || || || || || || ||| ||| || ||| || ||| || ||
Db   707 CAAGGACCAGGAGGAGGACTTCCAGTGACCAGTTGACCACCGTGAAGGTGCCTAT 766

Qy   671 GATGAAAAGACTGGGTATGTTCAATATTCAACATTGCAAAAAATTAAGTTCTTGGGTCTT 730
          ||||||| || || |||| | || || || || ||
Db   154 TACAAGAAACCTGAGTGACTGGCCAGTGACTGGCCAGTGTCCAGGGAAGAGAGTGTGTCCT 213

Db   767 GATGAAGCGTTAGGCATGTTTAACATCCAGCACTGTAAGAAGCTGTCCAGCTGGGTGCT 826
          |||||| | ||| | ||| || |||||| |||| ||||| |||| |||| ||
Qy   731 ATTAATGAAGTA-TTTAGGTAAGCTACTGCTATTTTTTTTTTTTTACCAGACGAGCGTAAGC 789

Db   827 GCTGATGAAATACCTGGGCAATGCCACCGCCATCTTCTCCTGCTCTGATGAGGGGAAAC 886
          | ||||||| || | || ||| ||||||||||| || || ||| || ||| ||
Qy   790 TTCAACATTAGAGAATGAGTTGACTCATGACATTAGTTACTAAATTTTTAGAGAACGAGG 849

Db   887 TACAGCACCTGAGAAATGAACTCACCCACGATATCATCACCAAGTTCCTGGAAATGAAG 946
          || ||| || || ||||| ||| || || || || || || |||| ||||||||
Qy   850 ATCGTCGTAGCGCTTCTCTGCACCTGCCAAAGTTAAGTATCACCGGTACTTACGACTTAA 909

Db   947 ACAGAAGGTCGCCAGCTTACATTTACCCAAACTGTCCATTACTGGAACCTATGATCTGA 1006
          ||||| ||| | |||| || |||||| ||||| ||||| |||| ||| || || ||||
Qy   910 AATCTGTTTTGGCCCAGTTAGGTATTACCAAAGTTTTTCTAACGGTGCCGATTTGAGTG 969

Db 1007 AGAGCGTCCTCGGGTCAACTGGGCATCACTAAGGTCTTCAGCAATGGGCGTGACCTCTCCG 1066
          || || || || || || | || || ||||| || ||||||| ||| ||| || ||
Qy   970 GTGTTACTGAAGAGCTCCATTAAAATTGAGTAAAGCTGTTCACAAGAGCCGTCTTAACTA 1029

Db 1067 GGGTCACAGAGGAGGCACCCCTGAAGCTCTCGAAGCGTGCATTAAGGCTGTGTGCGACCA 1126
          ||| || ||| ||| || || ||||| || || ||| || ||| |||| || || |||
Qy 1030 TTGATGAAAAGGGTACCGAGGCCGCCGGCCGCTATGTTCCTGGAAGCTATTCCAATGAGCA 1089

Db 1127 TCGACGAGAAAGGGACTGAAGCTGCTGTGGGGCCATGTTTTTAGAGGCCATACCCATGTCTA 1186
          || || ||||| ||||| ||| ||| || || || ||| || || || ||| || ||
Qy 1090 TTCCACCAGAAGTAAATTTAATAAACCATTCGTTTTTCTGATGATCGCGAGCAGACACTA 1149

Db 1187 TCCCCCCGAGGTCAAGTTCAACAAACCCTTTGTCTTCTTAATGATTGAACAAAATACCA 1246
          || || || ||| ||| ||||| ||| || ||||| || ||| || || || || |||
Qy 1150 AAAGCCCATTGTTATGGTAAGGTTGTCAACCCAACTCAGAA 1192

Db 1247 AGTCTCCCCTCTTCATGGGAAAAGTGGTGAATCCCACCCAAAA 1289
          || || ||| || ||| || |||||| || || || || ||||
Qy 1247 GGGTCACAGAGGAGGCACCCCTGAAGCTCTCGAAGCGTGCATTAAGGCTGTGTGCGACCA 1289

RESULT 5
US-09-964-824A-582
; Sequence 582, Application US/09964824A
; Patent No. US20020102531A1
; GENERAL INFORMATION:
; APPLICANT: Horrigan, Stephen
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Sign
; TITLE OF INVENTION: Sets
; FILE REFERENCE: 689290-73
; CURRENT APPLICATION NUMBER: US/09/964,824A
; CURRENT FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/60/236,033
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,032
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: US/60/236,028
; PRIOR FILING DATE: 2000-09-28
; NUMBER OF SEQ ID NOS: 583
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 582
; LENGTH: 594
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-964-824A-582

Query Match   14.6%;   Score 222.8;   DB 10;   Length 594;
Best Local Similarity   80.7%;   Pred. No. 5.1e-47;
Matches 260;   Conservative   0;   Mismatches 62;   Indels   0;   Gaps   0;

Qy 1197 TCCGGAAAGTCTTTCAAGGCGCCGGTGTTGTTCACCAAAGAGTCCGCTCAATGTTTGAGA 1256
          |||||||||| ||| ||||| || || || || |||||| || || || || |||||
Db   94 TCTGGAAAGTCCTTCAAAGCTGGAGTCGTCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy 1257 TACAAGAAGCCAGAATGTCAATCCGACTGGCAATGTCCAGGTAACGAAGAGATGTTGTCCA 1316
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   154 TACAAGAAACCTGAGTGACTGGCCAGTGACTGGCCAGTGTCCAGGGAAGAGAGTGTGTCCT 213

```
Qy  1317 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCCAACTAGAAGAAAG 1376
         |||||||| ||| || |||||||||  || || |||||||||||||  ||  ||
Db   214 GACACTTGTGTGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCCAACAAGGAGGAAG 273

Qy  1377 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTTGATGTTGAACCACCAAACTTCTGT 1436
         || ||| ||||| |||||||||| ||| ||||||||||||| ||  || |||||||
Db   274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTTGATGTGCTTAACCCCCCAATTTCTGT 333

Qy  1437 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTGTATGGGTAAGTGTGGTAAGTCC 1496
         || ||||| || ||||| || |||||||||||||| |||||  |||||||||||||||
Db   334 GAGATGGATGGCCAGTGCCAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393

Qy  1497 TGTGTTTCCCCAGTCAAGGCCT 1518
         || ||||||||| || || ||
Db   394 TGCGTTTCCCCTGTGAAAGCTT 415


RESULT 6
US-09-954-456-1989
;  Sequence 1989, Application US/09954456
;  Patent No. US20020115057A1
;  GENERAL INFORMATION:
;    APPLICANT: Young, Paul
;    TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
;    TITLE OF INVENTION: Sets
;    FILE REFERENCE: 689290-76
;    CURRENT APPLICATION NUMBER: US/09/954,456
;    CURRENT FILING DATE: 2001-09-18
;    PRIOR APPLICATION NUMBER: US/60/233,617
;    PRIOR FILING DATE: 2000-09-18
;    PRIOR APPLICATION NUMBER: US/60/234,052
;    PRIOR FILING DATE: 2000-09-20
;    PRIOR APPLICATION NUMBER: US/60/234,923
;    PRIOR FILING DATE: 2000-09-25
;    PRIOR APPLICATION NUMBER: US/60/235,134
;    PRIOR FILING DATE: 2000-09-25
;    PRIOR APPLICATION NUMBER: US/60/235,637
;    PRIOR FILING DATE: 2000-09-26
;    PRIOR APPLICATION NUMBER: US/60/235,638
;    PRIOR FILING DATE: 2000-09-26
;    PRIOR APPLICATION NUMBER: US/60/235,711
;    PRIOR FILING DATE: 2000-09-27
;    PRIOR APPLICATION NUMBER: US/60/235,720
;    PRIOR FILING DATE: 2000-09-27
;    PRIOR APPLICATION NUMBER: US/60/235,840
;    PRIOR FILING DATE: 2000-09-27
;    PRIOR APPLICATION NUMBER: US/60/235,863
;    PRIOR FILING DATE: 2000-09-27
;    NUMBER OF SEQ ID NOS: 2276
;    SOFTWARE: PatentIn version 3.0
;  SEQ ID NO 1989
;    LENGTH: 594
;    TYPE: DNA
;    ORGANISM: Homo sapiens
US-09-954-456-1989

Query Match             14.6%;  Score  222.8;  DB 10;  Length 594;
Best Local Similarity   80.7%;  Pred. No. 5.1e-47;
Matches  260;  Conservative    0;  Mismatches  62;  Indels    0;  Gaps    0;

Qy  1197 TCCGGAAAGTCTTTCAAGGCCGGTGTTTGTCCACCAAAGAAGTCCGCTCAATGTTTGAGA 1256
         || ||||||||  ||||| ||  |  |||| |  |  |||| ||| ||  ||  |  ||
Db    94 TCTGGAAAGTCCTTCAAAGCTGAGTCTGTCCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy  1257 TACAAGAAGCCAGAATGTCAATGCCGACTGGCAATGTCCAGGTAAGAAGAGATGTGTTCCA 1316
         |||||||| || |||||||  |||  ||| ||||||||  |  ||||||||||||||||
Db   154 TACAAGAAACCTGAGTGCCAGTGTCCAGGGAAGAAGAGATGTTGTCCT 213

Qy  1317 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCCAACTAGAAGAAAG 1376
         |||||||| ||| || |||||||||  || || |||||||||||||  ||  ||
Db   214 GACACTTGTGTGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCCAACAAGGAGGAAG 273

Qy  1377 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTTGATGTTGAACCCACCAAACTTCTGT 1436
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Db   274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTTGATGTGCTTAACCCCCCAATTTCTGT 333

Qy  1437 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTGTATGGGTAAGTGTGGTAAGTCC 1496
         || ||||| || ||||| || |||||||||||||| |||||  |||||||||||||||
Db   334 GAGATGGATGGCCAGTGCCAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393

Qy  1497 TGTGTTTCCCCAGTCAAGGCCT 1518
         || ||||||||| || || ||
Db   394 TGCGTTTCCCCTGTGAAAGCTT 415


RESULT 7
US-09-865-812-1
;  Sequence 1, Application US/09865812
;  Patent No. US20020115626A1
;  GENERAL INFORMATION:
;    APPLICANT: Rastelli, Luca
;    APPLICANT: Smithson, Glenda
;    TITLE OF INVENTION: Method of Detecting Inflammatory Lung Disorders
;    FILE REFERENCE: 21402-018 US
;    CURRENT APPLICATION NUMBER: US/09/865,812
;    CURRENT FILING DATE: 2001-05-28
;    PRIOR APPLICATION NUMBER: 60/207,104
;    PRIOR FILING DATE: 2000-05-25
;    NUMBER OF SEQ ID NOS: 5
;    SOFTWARE: PatentIn Ver. 2.1
;  SEQ ID NO 1
;    LENGTH: 594
;    TYPE: DNA
;    ORGANISM: Homo sapiens
US-09-865-812-1

Query Match             14.6%;  Score  222.8;  DB 10;  Length 594;
Best Local Similarity   80.7%;  Pred. No. 5.1e-47;
Matches  260;  Conservative    0;  Mismatches  62;  Indels    0;  Gaps    0;

Qy  1197 TCCGGAAAGTCTTTCAAGGCCGGTGTTTGTCCACCAAAGAAGTCCGCTCAATGTTTGAGA 1256
         || ||||||||  ||||| ||  |  |||| |  |  |||| ||| ||  ||  |  ||
Db    94 TCTGGAAAGTCCTTCAAAGCTGAGTCTGTCCTCCTAAGAAATCTGCCCAGTGCCTTAGA 153

Qy  1257 TACAAGAAGCCAGAATGTCAATGCCGACTGGCAATGTCCAGGTAAGAAGAGATGTGTTCCA 1316
         |||||||| || |||||||  |||  ||| ||||||||  |  ||||||||||||||||
Db   154 TACAAGAAACCTGAGTGCCAGTGTCCAGGGAAGAAGAGATGTTGTCCT 213

Qy  1317 GACACTTGTGGTATCAAGTGTCTAGACCCCAGTTGACACCCCAAACCCAACTAGAAGAAAG 1376
         |||||||| ||| || |||||||||  || || |||||||||||||  ||  ||
Db   214 GACACTTGTGTGGCATCAAATGCCTGGATCCTGTTGACACCCCAAACCCAACAAGGAGGAAG 273

Qy  1377 CCAGGTAAGTGTCCAGTTACTTACGGTCAATGTTTGATGTTGAACCCACCAAACTTCTGT 1436
         || ||| ||||| |||||||||| ||| ||||||||||||| ||  || |||||||
Db   274 CCTGGGAAGTGCCCAGTGACTTATGGCCAATGTTTGATGTGCTTAACCCCCCAATTTCTGT 333

Qy  1437 GAAATGGACGGTCAATGTAAGAGACTTGAAGTGTTGTATGGGTAAGTGTGGTAAGTCC 1496
         || ||||| || ||||| || |||||||||||||| |||||  |||||||||||||||
Db   334 GAGATGGATGGCCAGTGCCAAGCGTGACTTGAAGTGTTGCATGGGCATGTGTGGGAAATCC 393

Qy  1497 TGTGTTTCCCCAGTCAAGGCCT 1518
         || ||||||||| || || ||
Db   394 TGCGTTTCCCCTGTGAAAGCTT 415


RESULT 8
US-09-880-107-2090
;  Sequence 2090, Application US/09880107
;  Patent No. US20020142981A1
;  GENERAL INFORMATION:
;    APPLICANT: Horne, Darci T.
;    APPLICANT: Vockley, Joseph G.
;    APPLICANT: Scherf, Uwe
;    APPLICANT: Gene Logic, Inc.
;    TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;    FILE REFERENCE: 44921-5028-WO
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;  CURRENT APPLICATION NUMBER: US/09/880,107
;  CURRENT FILING DATE: 2001-06-14
;  PRIOR APPLICATION NUMBER: US 60/211,379
;  PRIOR FILING DATE: 2000-06-14
;  PRIOR APPLICATION NUMBER: US 60/237,054
;  PRIOR FILING DATE: 2000-10-02
;  NUMBER OF SEQ ID NOS: 3950
;  SOFTWARE: PatentIn Ver. 2.1
;  SEQ ID NO 2090
;  TYPE: DNA
;  ORGANISM: Homo sapiens
;  FEATURE:
;  OTHER INFORMATION: Genbank Accession No. US2002014298lA1 J02943
US-09-880-107-2090

Query Match     14.4%;  Score 219.8;  DB 10;  Length 1422;
Best Local Similarity  50.0%;  Pred. No. 4.2e-46;
Matches 548;  Conservative  0;  Mismatches 547;  Indels  0;  Gaps  0;

Qy  105 GAATTTGCTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTACTAACATTTTT 164
        ||| ||||| ||| ||| ||||  |||  ||||| || |  | |||   | |||
Db  168 GACTTTGCCTTCAGCGTGATAAGCACCTAGTGGCCTTGAGTCCCAAAAGAACATTTTC 227

Qy  165 TTTAGTCCGTTTCTATTGCCCACTGCTTTCGCCATGTGAGTTTAGGTACTAAAGCCCGAT 224
        ||||  | |||  || ||||||| ||  ||| ||  |||| | |||||    ||  ||
Db  228 ATCTCCCCTGTGAGCATCTCCATGGCCTTAGCTATGCTGTCCCTGGGCACCTGTGGCCAC 287

Qy  225 ACCCATGACGAGATTTTAGAAGGTTTAAACTTTAATTTGACCGAAATCCCAGAAGCCCAA 284
        || | | | ||  ||  | |||| |  | |||||  | ||   |||  ||| || |||
Db  288 ACACGGGCCCCAGCTTCTCCAGGGCCTGGGTTCAACCTCACTGAGAGGTCTGAGACTGAG 347

Qy  285 ATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTTGAATCAACCTGATTCTCAATTGCAA 344
        |||||| |||||||| ||| | || | |||  | | |||  |||| | || |||| ||
Db  348 ATCCACCAGGGTTTCCAGCAACCTGCCACCAACTCTTTGCAAAGTCAGACACCAGCTTAGAA 407

Qy  345 TTAACTACTGGTAACGGTTTATTTTGTCTGAAGGTTAAAATTGGTTGACAAATTCCTA 404
        |||||| | ||  ||| || ||  || |||||  | ||||| ||||  |   ||| |
Db  408 ATGACTATGGGCAARTGCCTTGTTCTTGTTCTTGATGGCAGCCTGGAGTTGCTGGAGTCATTCTCA 467

Qy  405 GAAGACGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTGGTGATACTGAG 464
        || ||| |||||  |||| || ||||| || | ||| | |||| ||||  || |||||
Db  468 GCAGAACATCAAGCACTACTACTATGAGTCAGAGGTCTTGGCTATGAATTCCAGGACTGGGCA 527

Qy  465 GAAGCTAAAAAGCAAATTAATGATTATGTTGAGAAAGGCACCCAGGTAAGATCGTTGAC 524
        || |||||| || |||| | | | || || || |||| |||||| | |||| ||||||
Db  528 ACAGCCAGCAGACAGATCAACAGCTATGTCAAGAATAAGAACAGGGGAAAATTGTCGAC 587

Qy  525 CTAGTTAAAGAATTAGATACGTGATACCGTCTTCGCACTAGTTAACTATATTTTTTCAAG 584
        || |||  ||| | ||||| ||| | ||| || || |||||| |||||||| ||| |||
Db  588 TTGTTTTCAGGGCTGGATAGCCCAGCCATCCTCGTTCCTGGTCAACTATATCTTCTTCAAA 647

Qy  585 GGTAAGTGGGAACGTCCTTTCGAGGTTAAAGATACTGAAGAGGAAGATTTTCARTGTTGAT 644
        || ||||||  | |||||| | | | |||||| |  ||| |||||||  | ||  || ||
Db  648 GGCACATGGCACAGCCCTTTGACCTGGCCAAGCACCAGGAGGAGGAGAACTTCTATGTGGAC 707

Qy  645 CAAGTTACTACTGTCAAAGTTCAATGATGAAAAGACTGGGTATGTTCAATATTCAACAT 704
        || || | | |||  |||| |  ||| || ||| |||||| |||| |||| ||||| |
Db  708 GAGACAACTGTCGTGGTGAAGGTGCCCATGATGTTGCAGTCGAGCACCATCAGTTACCTTCAT 767

Qy  705 TGCAAAAAATAAGTTCTTGGTCTTATTAATGAAGTATTTAGGTAACGCTACTGCTATT 764
        ||| |||  || |||| | |||  ||| ||| | ||||| |||||||  ||||| |||
Db  768 GACTCAGAGCTCCCCTCCAGCTGGTCGCAGATGAACTACGTGGGCAATGGGACTGTCTTC 827

Qy  765 TTTTTTTTACCAGACGAAGGTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATT 824
        ||| ||| ||| | ||  ||  | ||| || | || ||| || ||||| | ||||||| |
Db  828 TTCATCCTTCCGGACACAAGGGGAAGATGAACACAGTCATCGCTCACTGAGCCGGGACACG 887

Qy  825 ATTACTAAATTTTAGAGAACCAGGATCGTCTGCCTAGCGTTCTCTGCACCTTGCCAAAGTTA 884
        |||| | || |  ||||| |||| |||| | |||  ||| | |  ||||  |||||| |||
Db  888 ATTAACAGGTGTGTCCCGGCCCGAGCCTGACCAGCCACCAGCCACCAGCGTTGACATTTGTACATTCCAAAGGTC 947

Qy  885 AGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTGAGTATTACCAAAGTT 944
        ||| |||||||  || |  | ||||| ||| |||  || |||| | ||||| |||||| ||
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Db  948 ACCATCTCTGGAGTCTATGACCTTGGAGATGTGCTGGAGGAAATGGCATTGCAGACTTG 1007
        |||  ||| ||| | |||| | |||| |||||  ||| | || | ||||||  || |||
Qy  945 TTTTCTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTAAAATTGAGTAAA 1004
        || | ||||||| | |||| |  ||| || |||  |||||| || ||  |||| ||
Db 1008 TTCACCAACCAGGCAAATTCTCACCGATCATCACCCAGCTGAGTCATCAAAG 1067

Qy 1005 GCTGTTCACAAAGCCGTCTTAACTATTGATGAAGAAAGGTACCGAGGCCGCCGGCGTATG 1064
        |  ||| ||||||| ||  | ||| | || || | ||| | ||| ||| || || | |||
Db 1068 GTGGTCCATAAAGCTGTGCTGCAACTCAATGAGGAGGGTGGACACAGCTGGCTCCACT 1127

Qy 1065 TTCCTGGAAGCTATTCCAATGAGCATTCCACCAGAAGTAAATTAATAAACCATTCGTT 1124
        || ||||| ||| |||| |||| |||| |||||| ||| ||| || |  ||| | |||
Db 1128 GGGGTCACCCTAAACCTGACGTCCAAGCCTATCATCTTGCGTTCAACCAGCCCTTCATC 1187

Qy 1125 TTTCTGATGATCGCAGCAGAAACAACTAAAAGCCCATTGTTATGGTAAGGTTGTCAACCCA 1184
        ||| |||||||| ||| || || || || || |||  | |||| | |||| | ||| ||||
Db 1188 ATCATGATCTTCGACCACTTCACCTGGAGCAGCCTTTTCCTGCGGAGGGTTATGAACCCA 1247

Qy 1185 ACTCAGAAGATGTCC 1199
        | ||||| |||| ||
Db 1248 GTGTAAGAGACCACC 1262
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RESULT 9
US-09-917-800A-1421
;  Sequence 1421, Application US/09917800A
;  Patent No. US20020119462A1
;  GENERAL INFORMATION:
;  APPLICANT: Mendrick, Donna
;  APPLICANT: Porter, Mark
;  APPLICANT: Johnson, Kory
;  APPLICANT: Castle, Arthur
;  APPLICANT: Elashoff, Michael
;  APPLICANT: Gene Logic, Inc.
;  TITLE OF INVENTION: Molecular Toxicology Modeling
;  FILE REFERENCE: 4921-5038-US
;  CURRENT APPLICATION NUMBER: US/09/917,800A
;  CURRENT FILING DATE: 2001-07-31
;  PRIOR APPLICATION NUMBER: US 60/222,040
;  PRIOR FILING DATE: 2000-07-31
;  PRIOR APPLICATION NUMBER: US 60/222,880
;  PRIOR FILING DATE: 2000-11-02
;  PRIOR APPLICATION NUMBER: US 60/290,029
;  PRIOR FILING DATE: 2001-05-11
;  PRIOR APPLICATION NUMBER: US 60/290,645
;  PRIOR FILING DATE: 2001-05-15
;  PRIOR APPLICATION NUMBER: US 60/292,336
;  PRIOR FILING DATE: 2001-05-22
;  PRIOR APPLICATION NUMBER: US 60/295,798
;  PRIOR FILING DATE: 2001-06-06
;  PRIOR APPLICATION NUMBER: US 60/297,457
;  PRIOR FILING DATE: 2001-06-13
;  PRIOR APPLICATION NUMBER: US 60/298,884
;  PRIOR FILING DATE: 2001-06-19
;  PRIOR APPLICATION NUMBER: US 60/303,459
;  PRIOR FILING DATE: 2001-07-09
;  NUMBER OF SEQ ID NOS: 1740
;  SOFTWARE: PatentIn Ver. 2.1
;  SEQ ID NO 1421
;  LENGTH: 1714
;  TYPE: DNA
;  ORGANISM: Rattus norvegicus
;  FEATURE:
;  OTHER INFORMATION: Genbank Accession No. US20020119462A1 M63991
US-09-917-800A-1421

Query Match     14.0%;  Score 213.4;  DB 10;  Length 1714;
Best Local Similarity  50.4%;  Pred. No. 1.9e-44;
Matches 585;  Conservative  0;  Mismatches 561;  Indels  15;  Gaps  2;

Qy   48 ACCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTCCAAATTTAGCCGAA 107
        ||| |||||   | |||||| ||||||||  | |||||||| || ||||| |||||||
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Db   69 ACCTGTCATTTGCCCCAACAAATGCCACTCTCTATAAGAGTGCCATCTATCAATGCTGAT 128

Qy   108 TTTGCTTTTCTTTGTATAGACAATTAGCTCATCATCAAAGTAATTCTACTAACATTTTTTT 167
         ||||| || ||||| || || | ||| |||| | | || | |||||||||||||
Db   129 TTTGCCTTCAGGCTGTATCGGAAGCTCTCTGTCGGAGAACCCAGATTTGAACATCTTCTTC 188

Qy   168 AGTCCTGTTTCTATTGCCACTGCTTCGCCATGTGAGTTAGGTACTAAAGCCGATACC 227
         ||||| || | ||||||||| |||||| || ||||| ||| |||| ||| |||
Db   189 TCCCCTGTCGAGCATATCTGCTGCTTTAGCCATGCTCTTTGGATCTGGCTCTAGCACC 248

Qy   228 CATGCACGAGATTTTAGAAGGTTTAACTTAATTGACCGAAATCCCAGAAGCCCAAATT 287
         | ||| | ||| ||| | ||| ||||||||| | |||||| ||||||| ||
Db   249 CAAACACAGATTCGGAGGTCTTGGGGTTTAACCTACCACACTCCTGTGAAAGAATTA 308

Qy   288 CACGAGGGTTTCAAGAGTTGTTGAGAACTTGAATCAACCTGATTCTCAATTGCAATTA 347
         || ||| || ||||| | || ||||| | | || ||| ||| | |||||||| |
Db   309 CAACAGGGCTTCCAGCATTTGAATCTGTTCATTGAAGGTTAAAAATGTTGACAAAATTCCTAGAA 368

Qy   348 ACTACTGGTAACCGTTTATTTTTGTCTGAAGGTTAAAATGGTTGACAAAATTCCTAGAA 407
         || | ||||| ||| || |||| | |||| |||| | || | ||||| |||||||
Db   369 CAGATGGGAAAATGCAGTTTTTATTGGGCAACAGCTGAAACCACTGGCAAAGTTTTTGGAT 428

Qy   408 GAGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTAATTTTGGTGATACTGAGGAA 467
         |||||||||| ||||| ||| ||||| |||| ||||| ||| ||||| |||||||
Db   429 GATGTCAAGAGCCCTCATGAAACTGAAGTCTTTCTACTGACTTCTCCAATGTTTTCTGCA 488

Qy   468 GCTAAAAAGCAAATTAATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGTTGACCTA 527
         || ||||||| |||| || |||||||||||| || | | |||| ||| | |||||
Db   489 GCCCAGCATGAGATCAACAGTTATGTGGAGAAGAAGCAAAACCAAAGGGAAAATTGTAGGCTTA 548

Qy   528 GTTAAAGAATTAGATCGTGATACCGTCTTCGCCACTAGTTAACTATATATTTTTTCAAGGGT 587
         | ||| | ||| | ||| ||| || || | | | |||| ||||||||| |||| |
Db   549 ATTCAAGACCTCAAACTGAACATTATCATGATTCTGGTGAACTATATTCATTTCAAAAGCC 608

Qy   588 AAGTGGAAGCTGTCCTTTCGAGGTTAAAGATACTGAAGAG---GAAGATTTTCATGTTGAT 644
         ||||| ||| | | |||||| ||| | || | |||||| |||||||||| | ||||
Db   609 CAGTGGGCAAATCCTTTTCGTGTATCTAAAACAGAGAGAGTTCCAACTTCTCAGTGGAC 668

Qy   645 CAAGTTACTACTGTCAAAGTTCCAAGTGATGAAAGACTGGGTATGTTCAATATTCAACAT 704
         || || | | | |||| ||||| ||| | |||||||| ||| | |||| |||||||
Db   669 AAGAGCACCAGTACAGTGCCCAGCTAGCAACAATACTATCATTACGTG 728

Qy   705 TGCAAAAAATTAAGTTCTTGGGTCTTATTAATGAAGTATTTAGGTAACGCTACTGCTATT 764
         | ||| || || || ||| ||| ||| |||| |||| ||| |||| || ||||| |
Db   729 GATGTGAGCTGAATTGTACAGTACTTCAAATGGACTATAGTGCAAATGCCCTGGCACTT 788

Qy   765 TTTTTTTTACCAGACGAAGCTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATT 824
         ||| || ||||| |||| ||| || || || | | |||| | ||| |||| || |||
Db   789 TTTGTCCTTCCGAAGGAGGCACATGGAATGGGTGGAAGCAGCCATGTCATCTCATCTAAAACA 848

Qy   825 ATTACTAAATTTTAGACGAACGACGGATCGTTCTGCCGCCTTCTGCCACCTGCCAAAGTTA 884
         || | ||||| |||| | | ||| ||| | ||| | |||| ||||||| ||
Db   849 CTGAAGAAGTGGAACCATTTATTGCGAGAAAGGATGGGTTGAATTGTTTTGTTCAAGATCC 908

Qy   885 AGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGTATTACCAAAGTT 944
         ||| | | |||| | ||| |||| | | | ||| | || | | |||||||||||||
Db   909 TCCATTTCTGCCACATGACCTTGAGTACACTCAGAAGATGGGTATGAGGGGATGCC 968

Qy   945 TTTTCTAACGGTGCCGATTTGAGTGTTGTTACTGGAGAGCTCCATTAAAATTGAGTAA 1004
         ||| | ||| ||||| | || | ||| || |||| | | |||| ||||| |||||
Db   969 TTTGCTGAAAGTGCTGACTTTCGTGAATTCCTGGAATCACAAAATGGTCTAAAAACTTTCCTAT 1028

Qy 1005 GCTGTTCACAAAGCCGTCTTAAACTATTGATGAAAAAGGTACCGAGGCCGCGCTATG 1064
         ||| ||| |||| ||| | ||| | || ||||||||||| |||||| ||||| ||
Db 1029 GCTTTTCACAGGGCTGTGCTACAACATTGGTGCTACACATTGTGAAGTGCTTCTCCACCACTTTCTCGCAG 1088

Qy 1065 TTCCTGGAAGCTAT--------TCCAATGAGCAATTCCACCAGAGGTTAAATTTAAT 1112
         |||||||||||||| || |||||| |||| ||||| | | |||||||
Db 1089 GAAGCTGGATCTCTCGGATCAGCCAGAAGTAGCTCCTTCTCACGCGTCATCCGATTGGAT 1148

Qy 1113 AAACCATTCGTTTTTCTGATGATCCGACGGCCATTGTTATGGTAAG 1172
         | |||||| ||| | | | || |||| || || |||| |
Db 1149 AGAACATTCTTACTGATGATCTTAGAGAAACGAACAAGAAGTGTTCTCTTATTGAACTATATTTTTCACTTTAAAGCCC 1208

Qy 1173 GTTGTCAACCCAACTCAGAAG 1193
         |||||| | || |||| ||
Db 1209 GTTGTTGACCCAACAAAAGAG 1229

RESULT 10
US-09-880-107-2257
; Sequence 2257, Application US/09880107
; Patent No. US2002142981A1
; GENERAL INFORMATION:
;   APPLICANT: Horne, Darci T.
;   APPLICANT: Vockley, Joseph G.
;   APPLICANT: Scherf, Uwe
;   APPLICANT: Gene Logic, Inc.
;   TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
;   FILE REFERENCE: 44921-5028-WO
;   CURRENT APPLICATION NUMBER: US/09/880,107
;   CURRENT FILING DATE: 2001-06-14
;   PRIOR APPLICATION NUMBER: US 60/211,379
;   PRIOR FILING DATE: 2000-06-14
;   PRIOR APPLICATION NUMBER: US 60/237,054
;   PRIOR FILING DATE: 2000-10-02
;   NUMBER OF SEQ ID NOS: 3950
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2257
;   LENGTH: 1872
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US20020142981A1 M14091
US-09-880-107-2257

Query Match   12.7%; Score 193; DB 10; Length 1872;
Best Local Similarity   49.2%; Pred. No. 2.7e-39;
Matches 576; Conservative   0; Mismatches 580; Indels 15; Gaps   2;

Qy   49 CCAGTCATCACGACCAAGACCATCCGACTTTTAATAAAATTACTCCAAATTAGCCGAAT 108
         || || ||| ||||| || || || |||||| |||| || ||| |||||||||||||||
Db   416 CCTGCCATTCATCCCAACCAAATGCCACTCTCTACAGATGTCATCATCATTAATGCTGACT 475

Qy   109 TTGCTTTTCTTTGTATAGACAATTAGCTCATCAAGTGTAATTCTACTAACATTTTTTTTA 168
         |||||| | | |||||||| |||| | | | |||||||||||| ||||| ||
Db   476 TTGCATTCAATCTGTACCGGAGGTTCACTGTGGAGACCCCAGATAAGAACATCTTCTTTT 535

Qy   169 GTCCTGTTTCTATTGCCACTGCTTCGCCATGTGAGTTAGGTAGTACTAAAGCCGATACCC 228
         ||| | | | || | ||||| ||||||| || ||| | | |||||||||||||||
Db   536 CCCCTGCTGAGCATTTCTGCAGCTTTGGTTATGCTTTCCTTTGGGCCTGCTGCAGCACCC 595

Qy   229 ATGACGAGATTTTAGAAGGTTTAAACTTTAATTGACCGAAATCCCAGAAGCCCAAATTC 288
         | |||| | || |||| | | ||| |||| ||| | | ||| | |||||||| ||
Db   596 AAACTGAGATTGTGGAACCTTGGGGTTCAACCTCACAGACACTCCAATGGTAGAGATCC 655

Qy   289 ACGAGGGTTTTCAAGAGTTGTTGGAACTTTGAATCAACCTGATTCTCAATTGCAATTAA 348
         | |||||| |||| || | | || | | || | ||| | || | |||||| | | |
Db   656 AGCATGGCTTCCAGCATCGATCGTGTTCACTGAATTTTCCAAAGAGGAACTGGAATTGC 715

Qy   349 CTACTGGTAACGGTTTATTTTTGTCTCGTGAAGGTTAAAATGGTTGACAAATTCCTAGAAG 408
         | | ||||| | ||||| || ||| |||||| | |||| |||| |||| ||||||||
Db   716 AGATAGGAAATGCCCTCTTCATTGGCAACAGCTGAAGCACTGGCAAAGTTCTTGAATG 775

Qy   409 ACGTCAAGAAACTATATCATAGTTAGGCTTTTACCGTTAATTTGGTGATACTGAGGAAG 468
         | ||||||| ||| | ||||| |||| |||| ||| | | || | | |||||||
Db   776 ATGTCAAGACCCCTCATGAGACTGAAGTCTTTCTACCACTTTCTCCAACATTTCTGCAG 835

Qy   469 CTAAAAAGCAAATTAATGATTATGTTGAGAAAGGTTAAATTTAAT 528
         || |||||||||| | | || |||| |||| | | ||| ||
Db   836 CCAAGCAGGAGATTAACAGTCATGTGGAGATGCAAAACCAAAGGGAAAGTTGTGGGTCTAA 895

Qy   529 TTAAAGAATTAGATCGTGATACCGTCTTCGCCACTAGTTAACTATATTTTTTCACTTTAAAGCCC 588
         || ||| |||||| | |||||| |||| | || |||| ||| |||||| |||||| |||||||
Db   896 TTCAAGACCTCAAGCCAAATCATCATGATTCTTAGTGGAACTATATCTTAGTGAACTATATTCACTTTAAAGCCC 955

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Query Match              12.5%;    Score 190.8;  DB 10;    Length 1245;
Best Local Similarity    49.2%;    Pred. No. 8.3e-39;
Matches  535;  Conservative    0;  Mismatches 547;  Indels    6;  Gaps    1;

Qy    105 GAAATTGCTTTTCTTTGTATAGACAATAGTCATCAAAGTAATTCTACTAACATTTTT 164
          || ||| ||||| || ||| || || ||| ||| || |||||  ||| | |||||
Db    160 GACTTAGGCTTTAAGCTGCTCAAGAGAGCTGGCCTTTACAACCTGGCAGGAACATCTTC 219

Qy    165 TTTAGTCCTGTTCTATTGCCACTGCTTCTGCCATGTGAGTTTAGTACTAAAGCCGAT 224
          ||| | | | |||  ||| ||| |||||  | ||| ||| || | ||| ||||
Db    220 CTATCCCCCTGAGCATCTCTACAGCTTTCTCCATGCTGCCTGGGTGCCCAGGACAGC 279

Qy    225 ACCATGACCAGATTTAGAAGGTTTAAACTTTAATTTGACCGAAATCCCAGAAGAGCCCAA 284
          ||||  |||||||
Db    280 ACCCTGACGAGATCAAGCAGCGGGGTCAACTTCAGAAAG------ATGCCAGAAAAAGAT 333

Qy    285 ATTCACGAGGGTTTTCAAGAGGTTGTTGAGAAGTTTGAATCAACCTGATCTCAATTGCAA 344
          ||| ||||||  |||| ||| || |||||  ||| | |||||| ||| || || || |||
Db    334 CTTCATGAGGGCTTCCATTACATCACGAGCTGACCCAGAACGACCCAGGACCTCAAA 393

Qy    345 TTAACTACTGGTAACCGTTTATTTTGTCTGAAGTTAAAATTGGTTGACAAATTCCTA 404
          ||  ||| ||| |  | | || || || ||| || |||| | |||| | |||| | |||
Db    394 CTGAGCATTGGGAACACGCTGTTCATTGACCAGAGGCTGCAGCCACCAGCGTAAGTTTTTG 453

Qy    405 GAAGACGTCAAGAGAACTATATCATAGTGAGGCTTTTACCGTTAATTTGGTGATACTGAG 464
          ||| ||| |||||| ||| || | | || || |||  ||| ||  ||||| |||  |||
Db    454 GAAGATGCCAAGAACTTTACAGTGCCGAAACCATCCTTACCAACTTTCAGAATTTGGAA 513

Qy    465 GAAGCTAAAAAGCAAATTAATGATAATGTTGAGAAAGGCACCCAGGTAAGATCGTTGAC 524
          || || | || || | ||| | | || || | | | ||| || || || ||| | ||
Db    514 ATGGCTCAGAAGCAGATCAATGACTTTATCAGTCAGTAACTAAAACCCATGGGAAAATTAACAAC 573

Qy    525 CTAGTTAAAGATTAGATCGTGTATACCGTCTTCGCCACTAGTTAACTATATTTTTTCAAG 584
          | |||| | || || | ||| | || ||||| ||||| |  || || | | ||| |||||
Db    574 CTGATCGAGAATATAGACCCCGCACTGTGATGCTTCTTGAGCTTGTGAAAATTATATTTCTTCGA 633

Qy    585 GGTAAGTGGGAACGTCCTTTGCGAGGTAAAGATACTGAAGAGGGAGATTTCATGTTGAT 644
          |||| |||||| |||  | ||| || |||||||| | || ||| ||||  |||| ||||
Db    634 GCCAGTGGAAACATGAGTTGTGATCAAAATGTAACTAAAGAGGAGATTTCTTTCTGGAG 693

Qy    645 CAAGTTACTACTGTCAAAGTTCCAATGAAGTTCAATGATGAAAAGACTGGGTATGTTCAATATTCAACAT 704
          ||||| ||| | |||||| ||| |||
Db    694 AAAAACAGTTCAGTCAAGGTGCCCATGAGTGTCCCGTAGTGGCCATATACCAAGTTGGCTAT 753

Qy    705 TGCAAAAAATTAAGTTCTTGGGTGTCTTATTAATGAGAATATCACCAGAAAAAATATCACAGCCATC 764
          | | ||||| | || | ||  || ||| || ||| ||
Db    754 GACGATAAGCTCTTCTTGCACCATCCTGAAATACCCTACCAGAAATACCCTCCACAACATCACAGCACATT 813

Qy    765 TTTTTTTTACCAGACGAAGGTAAGCTTCAACATTGACTCATGACATT 824
          || |  || | ||||| ||| |||||||  |||||  ||| || |||
Db    814 TTCATCCTTCCTGATGAGGGCAAGCTGAGCACTTGCGTAGCCTCTCGCACCTGCACACT 873

Qy    825 ATTACTAAATTTTAGAGAACAGGATCGTCGTCAGCAGGGTAGTCGTCGTGTTAGTACCCCAGACTC 884
          || || ||| ||||||| || | ||| || || | |||| | || | |||  ||| ||||
Db    874 TTCTCCGATGGAAAACATTACTGTCACGCAGCGGTCGTCACGTGTCTGTACCCAGACTC 933

Qy    885 AGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGTATTACCAAAGTT 944
          || || ||| ||  |  | ||| || | |||| || |  ||  ||| | || |||| || |
Db    934 CACATGACGGGCACCTTCGACCTTGACCTGAAGAGACTCTCTCCTACATAGGGTCTCCAAAATC 993

Qy    945 TTTTCTAACGGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTAAAATTGAGTAAA 1004
          || |  || ||| ||| |||| || || |||||||  ||  |||| || || || |||
Db    994 TTTGAGGAACATGGTGATCTCACCAAGATCGCCCCTCATCGCAGCCTGAAAGTGGGCGAG 1053

Qy   1005 GCTGTTCACAAAGCGTCTTAACTATTGATGAAAGAGGTACCGGCCGGGCGCTATG 1064
          ||| || ||| |||| ||  | || ||| || | | |||  |  ||| ||| || |
Db   1054 GCTGTGCACAAGGCTGAGTCTGAGCTGAAGATGAGGATGAGAGGGTACGGAAGGGGCCCTGGCACC 1113

Qy   1065 TTCCTGGAAGCTATTCCAATGACCATGCAAGATGTAATTTAATTTAAACATTCGTT 1124
          || |  |||| ||| | |  || || || || ||  | || || || |||  | | ||
Db   1114 GGAGCACAGACTCGCCCCATGGAGAACACCACTCGTGTCAAGATAGACAAACCCTATCTG 1173

Qy   1125 TTTCTGATGATCGAGCAGAACAACTAAAAGCCCATTGTTTATGGTGGTAAGGTTGTCAACCCA 1184
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Qy    589 AGTGGGAACGTCCTTTCGAGGTTAAAGATACTGAAGA---GGAAGATTTTCATGTTGATC 645
          |||||| || |||| || ||  ||  || ||  ||
Db    956 AGTGGGCAAATCCTTTGATCCATCCAAGACAGAGAAGACAGTTCCAGCTTCTTAATAGACA 1015

Qy    646 AAGTTACTACTGTCAAAGTTCAATGATGAAAGAGACTGGTATGTTCAATATTCAACATT 705
          || || || || || || ||| |||||||  |||| ||| ||||| || | |||| |||
Db   1016 AGACCACCACTGTTCAAGTGCCCATGAGTGGAACAACTATCACCCTAGTGG 1075

Qy    706 GCAAAAAATTAAGTTCTTGGGTCTTATTAATGAACATTAGAGAATGAGTTGACTCTGCTATTT 765
          ||||||||| ||| |  || || |||| || || ||  ||||| || || | || ||
Db   1076 ATATGGAATTGAACTGACAGTTCTGCAACAGTCTCGCAAATGGCTACAGCCAAGAATGCTCTGCCACTCT 1135

Qy    766 TTTTTTACCAGACGAAGGTAAGCTTCAACATTTAGAGAATGAGTTGACTCATGACATTA 825
          ||| | ||||||  ||| ||| ||| || ||  |||| |  ||| || || || |||
Db   1136 TTGTTCTTCCCAAGGACGACAGATGGAGTCAGTGGAGTCGCCATGTGGTGGCCATGTCAAAAACAC 1195

Qy    826 TTACTAAATTTTAGAGAACGAACGAGGATCGTCGTCGTAGCGCTTCTGCGACCTGCCAAAGTTAA 885
          || |  ||| || |||| ||| ||| || ||| || ||  || || | ||| || |||| |
Db   1196 TGAAGAAGTGGAACCGTTACTACAGAAGGGGATGGGTTGACTTGTTGTTCCAAAAGTTTT 1255

Qy    886 GTATCACCGGTACTTACGACTTACAAAATCTGTTTTAGGCCAGTTAGGTATTACCAAAGTTT 945
          ||  || ||| ||  | | ||  | || |||| ||| |  ||  ||| | || ||||| || |
Db   1256 CCATTTCTGCCACATATGAGCCACACTTTTGAGATGGGCATTCAGCATGCCT 1315

Qy    946 TTTCTAACGGTGCCGATTTGAGTGGTGGTTACTGAAGAGCTTCCATTAAAATTGAGTAAAG 1005
          ||| | || ||| ||| |||| || || | ||| |||| ||| ||  || | || |||||
Db   1316 ATTCTGAAAATGCTGATTTTCTGGACTCACAGAGAGGACACAATGGTCTCGAAACTTTCCAATG 1375

Qy   1006 CTGTTCACAAACCGTGCTTAACTATTGATGAAAAAGGTACCGAGGCCGCCGGCGTATGT 1065
          ||| || ||| | ||| | |||| || | |||| || || |  || |  | | || | |
Db   1376 CTGCCCATAAGGCTGTGCGCACATGGTCTGAAGCTCGAAGCTGAAGCTGCAGCTGCTGTCCCTG 1435

Qy   1066 TCCTGGAA---------GCTATTCCAATGAGCATTCACCAGAAGTTAAAATTAATA 1113
          ||||||||         ||| | || || || |  |||| |||| || || || |||
Db   1436 AAGTTGAACTTTCGGATCAGCCTGAAAAACACTTTCCTACACCCTATTATCCAAATTGATA 1495

Qy   1114 AACCATTCGTTTTCTGATGATCGAGAACAGCAGAACACTAAAAAGCCCATTGTTTATGGTTAAGG 1173
          || | | |||| | ||| ||| || |  || ||| || | ||| || |  ||  || || |||||
Db   1496 GATCTTCATGTTGTTGATTTTGGAGAAGGACACAAGACGAGTATTCTCTTTTCTCTTTTTAGGGAAAG 1555

Qy   1174 TTGTCAACCCAACTCAGAAGATGTCCGAAA 1204
          || || ||| | ||||||| ||||  ||||
Db   1556 TTGTGAACCCAACGGAAGCGTAGTTGGGAAA 1586
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RESULT 11
US-09-755-665-13
; Sequence 13, Application US/09755665
; Patent No. US2002010718661
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Sudhirdas K.
; APPLICANT: Majumder, Kumud
; APPLICANT: Taillon, Bruce E.
; APPLICANT: Spaderna, Steven K.
; APPLICANT: Spytek, Kimberly A.
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 15966-631
; CURRENT APPLICATION NUMBER: US/09/755,665
; CURRENT FILING DATE: 2001-08-14
; PRIOR APPLICATION NUMBER: U.S.S.N. 60/174,724
; PRIOR FILING DATE: 2000-01-06
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: PatentIn Ver. 2.1
;
; SEQ ID NO 13
; LENGTH: 1245
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1245)
US-09-755-665-13

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Db   1174 CTGCTGATTTACAGGCAGAAAATACCTTCCGTGCTCTTCCTGGGAAAGATTGTTAACCCT 1233
               |||||         |||||     |   ||  |||| |||  ||| |||| |||||
Qy   1185 ACTCAGAA 1192
          || ||
Db   1234 ATTGGAAA 1241

RESULT 12
US-09-917-800A-1325
; Sequence 1325, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
;   APPLICANT: Mendrick, Donna
;   APPLICANT: Porter, Mark
;   APPLICANT: Johnson, Kory
;   APPLICANT: Castle, Arthur
;   APPLICANT: Elashoff, Michael
;   APPLICANT: Gene Logic, Inc.
;   TITLE OF INVENTION: Molecular Toxicology Modeling
;   FILE REFERENCE: 44921-5038-US
;   CURRENT APPLICATION NUMBER: US/09/917,800A
;   CURRENT FILING DATE: 2001-07-31
;   PRIOR APPLICATION NUMBER: US 60/222,040
;   PRIOR FILING DATE: 2000-07-31
;   PRIOR APPLICATION NUMBER: US 60/222,880
;   PRIOR FILING DATE: 2000-11-02
;   PRIOR APPLICATION NUMBER: US 60/290,029
;   PRIOR FILING DATE: 2001-05-11
;   PRIOR APPLICATION NUMBER: US 60/290,645
;   PRIOR FILING DATE: 2001-05-15
;   PRIOR APPLICATION NUMBER: US 60/292,336
;   PRIOR FILING DATE: 2001-05-22
;   PRIOR APPLICATION NUMBER: US 60/295,798
;   PRIOR FILING DATE: 2001-06-06
;   PRIOR APPLICATION NUMBER: US 60/297,457
;   PRIOR FILING DATE: 2001-06-13
;   PRIOR APPLICATION NUMBER: US 60/298,884
;   PRIOR FILING DATE: 2001-06-19
;   PRIOR APPLICATION NUMBER: US 60/303,459
;   PRIOR FILING DATE: 2001-07-09
;   NUMBER OF SEQ ID NOS: 1740
;   SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1325
;   LENGTH: 2051
;   TYPE: DNA
;   ORGANISM: Rattus norvegicus
;   FEATURE:
;   OTHER INFORMATION: Genbank Accession No. US20020119462A1 D00753
US-09-917-800A-1325

Query Match    12.0%;  Score 182.6;  DB 10;  Length 2051;
Best Local Similarity  50.5%;  Pred. No. 1.2e-36;
Matches   499;  Conservative    0;  Mismatches  484;  Indels   6;  Gaps   2;

Qy   103 CCGAATTTGCTTTTTCTTTGTATAGACAATTAGCTCATCAAAGTAATTCTACTAACATTT 162
             | ||||| |||||| ||   |  || ||| || |||| || ||  |||  | ||||
Db   238 CTGACTTTGCCTTCAGCCTCTACAAGAAGCTGGCTTTGAGGAATCCAGATAAAAATGTTG 297
Qy   163 TTTTTAGTCCTGTTTCATTGCCACTGCTTTCCCATGTGAGTTTAGGTACTAAAGCCG 222
              |||| |||  |||  || ||| || |||  |  ||  ||| | ||| ||
Db   298 TCTTCTCCCCACTTAGCATCTCAGCCGCCTTGGCCGTCCCTGGGAGCAAAGGGCA 357
Qy   223 ATACCCATGACGAGATTTTAGAAGGTTTAAACTTTAATTTGACCGAAATCCCAGAAGCCC 282
              ||| |||   || ||| |||| |  |||| |||   |  | |
Db   358 ACAGCATGGAAGAGATTCTAGAAGGTCTCAAGTTCAAGTTCATTCAGAGACCCTGAGACAG 417
Qy   283 AAATTCACGAGGGTTTTCAAGAACTTGTTGAGAACTTTGAATCAACCTGATTCTCAATTGC 342
             ||||| |||| ||| |||   | |  | |||  | |||  | |  |||  |||||| ||
Db   418 AAATTCACCACGGGGCTTTGGACACCTCCTCCAGAGGCTCAGCCAGCCAAGGGAGCGAGATAC 477
Qy   343 AATTAACTACTGGTAACGGTTTTATTTTGTCTGAAGGTTTAAAATTGGTTGACAAATTCC 402
              | | |||  ||  || || |  |    ||  |  |||   |||| |||  |   |||||
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Db    478 AGATCAGTACAGGCAATGCCTGTTTATTGAAAACGCCTTCAGTCCTGGCAGAGTTCC 537
              |||||    |   |||  | |||||| ||||||||||||||||||||||||
Qy    403 TAGAAGACGTCAAGAAACTATATCATAGTGAGGCTTTTACCGTTAATTTTGGTGTATACTG 462
Db    538 AGGAGAAGGCAAAGGCCTCTGTACCAAGCTGAGGCCTTCAGCTGATTTCCAGCAGTCTC 597
              |||||  |||  |||| |||| || |    |||||||||||  ||  ||| |||| |
Qy    463 AGGAAGCTAAAAAGCAAATTAATGCATTGATTATGTGAGAAGGCACCCAGGGTAAGATCGTTG 522
Db    598 GTGAGGCCAAAAAGCTCATCAATGACTATGTGAGTAAACAGACCCAGGGAAGATCCAAGG 657
              |||   |||||||  ||      |||| | ||  ||| ||||||||
Qy    523 ACCTAGTTAAAGATTAGATCGTGATACCGTCTTCGCACTAGTTAACTATATTTTTTCA 582
Db    658 GACTGATCACAAACCTAGCTAAGAGAGAACCATGGTACTGGTGAATTACATCTACTTTA 717
              ||  | | ||     |||||| ||  |  ||||  |||||||||| ||| |  | |||
Qy    583 AGGTAAGTGGGAACGTCCTTTCGAGGTTAAAGATACTGAAGAGGAAGATTTCATGTTG 642
Db    718 AAGGCAAATGGAAGGTGCCTTTGACCCTCGGGACACATTCCAGTTCGAGTTCTCACTCTG 777
              ||   ||   |||  |  ||||||||||     | | |||||| | ||| | |  ||
Qy    643 ATCAAGTTACTACTGTCAAGTTCCAATGATGAAAAGACTGGGTATGTTCAATATTCA-- 700
              || |||| | ||   ||||  |||||||||||||||| || |||| | | |||| |
Db    778 GCAAAAGGAGGCCGTGTGAAAGTGCCCATGATGAAGCTTGAGGACCTGACCACACCCTACG 837
Qy    701 -ACATTGCAAAAAATTAAGTTCTTGGGTCTTATTAATGAAGTATTAGGTAACGCTACTG 759
                ||| ||| | |||| || | ||  |   ||| |||||||  |  ||   ||| |  |
Db    838 TCCGGGATGAGGAGCTGAACTGCACTGTTGTGGAGCTGAAGTACACAGGAAATGCCAGCG 897
Qy    760 CTATTTTTTTTTTACCAGACGAAGGTAAGCTTCAACATTTAGAGAATGAGTTGACTCATG 819
              |  || | | | | ||| |  ||| |||   | |   |||| ||||  ||| |   ||
Db    898 CCCTGTTTTATCCTCCCTGACCAGGCAAGATGCAGCAGGTGGAAGCCAGCTTGCAACCAG 957
Qy    820 ACATTATTACTAAATTTTAGA---GAACGAGGATGCGTCGTAGCGCTTCTGCCACCTGC 876
              || ||| |  ||| ||| |||    |||||   || | | | |||| |||||| ||||
Db    958 AGACCCTGAGGAGATGGAAGGACTCTCTCAGGCCCAGCATGATAGATGAGCTCTACCTGC 1017
Qy    877 CAAAGTTAAGTATCACCGGTACTTACGACTTAAAATCTGTTTTAGGCCAGTTAGGTATTA 936
              |||||| |||| || |  |||| ||| |||    |||| ||  |||  ||| || | | |
Db   1018 CCAAGTTCTTCCATCTCTGCTACAACCTGGAGGACGTCCTTCCAGAGCTGGGCATCA 1077
Qy    937 CCAAAGTTTTTTGCGGCGTGCCGATTTGAGTGGTGTTACTGAAGAAGCTCCATTAAAAT 996
              ||||||| | | || |  | | | ||||  ||| | | ||   ||  |||| |||||
Db   1078 AAGAAGTCTTCTGCCAACAGGCTGACCTGTCTGGGATCACAGGGGATAAGGACCTGATGG 1137
Qy    997 TGAGTAAAGCTGTTCACAAAGCCGTCTTAACTATTGATGAAAAGGGTACCGAGGCCCCCG 1056
              | || ||||| || |||||  | | |    ||| ||| |||||  ||||| |  |||||
Db   1138 TCTCTCAGTGGTCCACAAGGCTGTTCTGGATGTGGCGTGAGCACGAGAAGCAGCCG 1197
Qy   1057 GGCCTATGTTCCTGGAAGCTATTCCAATG 1085
              ||||| || | ||||| ||| ||||||||
Db   1198 CTGCCACAGGGGTCAAATTTGTTGTTCCAATG 1226

RESULT 13
US-09-960-352-12287
; Sequence 12287, Application US/09960352
; Patent No. US2002013713941
; GENERAL INFORMATION:
;   APPLICANT: Warren, Wesley C.
;   APPLICANT: Tao, Nengbing
;   APPLICANT: Byatt, John C.
;   APPLICANT: Mathialagan, Nagappan
;   TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
;   TITLE OF INVENTION:  MUSCLE AND FAT DEPOSITION
;   FILE REFERENCE: 16511.006/37-21(10298)C
;   CURRENT APPLICATION NUMBER: US/09/960,352
;   CURRENT FILING DATE: 2001-09-24
;   NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 12287
;   LENGTH: 391
;   TYPE: DNA
;   ORGANISM: Bos taurus
;   OTHER INFORMATION: Clone ID: 52-LIB34-079-Q1-E1-E8
US-09-960-352-12287
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Query Match   10.6%;   Score 161;   DB 10;   Length 391;
Best Local Similarity 64.2%;   Pred. No. 1.7e-31;
Matches 242; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

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Qy  336 CAATTGCAATTAACTACTACTGGTAACGGTTTATTTTGTCTGAAGGTTAAAATTGGTTGAC 395
            ||  |||||| | ||||||| |||||  | ||| ||| |  ||||||||||||| |||
Db    2 CAGCTGCAACTGACCACTGCAATGGTCTGTTCATCAATGAGAGTGCAAAGCTAGTGGAT   61

Qy  396 AAATTCCTAGAAGACGTCAAGAAACTATATCATGTAGAGGCTTTTACCGTTAATTTTGT  455
        |  |||| | ||| |||||||| | ||||
Db   62 ACGTTTTGGAGGATGTCAAGAACCTGTATCACTCCGAGCCTTCTCCATCAACTTCAGG   121

Qy  456 GATACTGAGGAAGCTAAAAAGCAAATTAATGATTATGTTGAGAAAGGCACCCAGGGTAAG  515
Db  122 GATGCTGAGGAGGGCCAAGAAGAGATCAACGATTATGTAGAGAGAGGGAAGCCATGGAAA  181

Qy  516 ATCGGTTGACCTAGTTAAAGAATTAGATCGTGATACCGTCTTCCGCACTAGTTAACTATATT 575
Db  182 ATTGTGGAGTTGGTAAAGGTTCTGACCCAAACACAGTTTTTGCTCGTGGTGAATTACATT  241

Qy  576 TTTTTCAAGGGTAAGTGGGAACGTCCTTTCGAGGTAAAGATACTGAAGAGGAGATTTT   635
Db  242 TCCTTTAAAGGAAAATGGGAGAAGCCCTTCGAGATGAAGCAACCACCAGAGAGGGACTTC  301

Qy  636 CATGTGATCAAGTTACTACTGTCAAAGTTCCAATGATGAAAAGACTGGGTATGTTCAAT   695
Db  302 CATGTGGACGAGCAAACCACTGTGAAGGTGCCCATGATGAACCGCCTGGGCATGTTTGAC  361

Qy  696 ATTCAACATTGCAAAAA 712
Db  362 CTCCACTACTGCGACAA 378
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RESULT 14
US-09-960-352-10531
; Sequence 10531, Application US/09960352
; Patent No. US2002013713A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 10531
; LENGTH: 430
; TYPE: DNA
; ORGANISM: Bos taurus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (398)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: 45-LIB34-014-Q1-E1-D2
US-09-960-352-10531

Query Match   9.6%;   Score 146.4;   DB 10;   Length 430;
Best Local Similarity 60.5%;   Pred. No. 8.8e-28;
Matches 240; Conservative 0; Mismatches 157; Indels 0; Gaps 0;

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Qy  180 ATTGCCACTGCTTTCGCCATGTTAGTTGAGTTACTAAAGCCGATACCCATGACGAGATT  239
Db   32 ATTGCTTCAGCCTTGCATGCTGTCTCCCCTGGGAGCCCAAGGGCCAACACTCACACTGAGATC 91

Qy  240 TTAGAAGGTTAAACTTTAATTTAATTGACCGAAATCCCAGAAGCCCAAATTCACCGAGGGTTTT 299
Db   92 CTGAAGGGCCTGGGTTTCAACCTCACTGAGCTCGCAGAGGCTGAGATCCACAAAGGCCTTT  151

Qy  300 CAAGAGTTGTTGAGAACTTTGAGAACTTCTCAATTGCAATTAACTACTACTGGTAAC  359
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Db  152 CAGCATCTTCTCCACACCCTGACCACCACCAGCTGCAACTGACCACTGGCAAT 211
Qy  360 GGTTTATTTTGTCTGAAGGTTAAAATTGGTTGACAAAATTCCTAGAAGACGTCAAGAAA 419
Db  212 GGTCTGTTCATCAATGAGAGTGCAAAGCTAGTGGATACGTTTTGGAGGATGTCAAGAAC 271
Qy  420 CTATATCATGTAGAGGCTTTTACCGTTAATTTTGGTGATACTGAGGAAGCTAAAAAGCAA 479
Db  272 CTGTATCACTCCGAGCCTTCTCCATCAACTTCAGGGATGCTGAGGAGGGCCAAGAAGAAG 331
Qy  480 ATTAATGATTATGTTGAGAAAGGCACCCAGGGTAAGATCGGTTGACCTAGTTAAAGAATTA 539
Db  332 ATCAACGATTATGTAGAGAGAGGGAAGCCATGGAAAAATTGTGGAGTTGGTAAAGGTTCTT 391
Qy  540 GATCGTGATACCGTCTTCCGCACTAGTTAACTATATT 576
Db  392 GACCCAAACACAGTTTTTGCTCGTGGTGAATTACATT 428
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RESULT 15
US-09-960-352-14649
; Sequence 14649, Application US/09960352
; Patent No. US2002013713A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 14649
; LENGTH: 444
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 62-LIB34-086-Q1-E1-H6
US-09-960-352-14649

Query Match   8.9%;   Score 135.8;   DB 10;   Length 444;
Best Local Similarity 58.2%;   Pred. No. 4.2e-25;
Matches 239; Conservative 0; Mismatches 172; Indels 0; Gaps 0;

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Qy   82 ATAAAATTACTCCAAATTAGCCGAATTGCTTTTCTTTGTATAGACAATTAGCTCATC 141
Db   34 ACAAGATTGCCCCCAACCTGGCCAACTTGCCTTCAGCATATACCACCATTGGCTATC  93

Qy  142 AAAGTAATTCTACTAACATTTTTTTAGTCCGTTCTATTGCCACTGCTTTCGCCATGT 201
Db   94 AGTCCAACACCAGCAACATCTTCTTCCCCCGTGAGCAICGCCTTCAGCCTTTGCGATGC 153

Qy  202 TGAGTTTAGGTACTAAAGCCCATGACGAGATTTTAGAAGGTTTAAACTTTAATT 261
Db  154 TCTCCCCTGGGAGCCCAAGGGCAACACTCACACTGAGATCCTGAAGGGCCTGGGTTTCAACC 213

Qy  262 TGACCGAAATCCCAGAAGCCCAAATTCACGAGGGTTTCAAGAGTTGTTGAGAACTTTGA 321
Db  214 TCACTGAGCTCGCAGAGGCTGAGATCCACAAAGGCCTTCAGCATCTTCTCCACACCCTCA 273

Qy  322 ATCAACCTGATTCTCAATTGCAATTAACTACTGGTAACGGTTTATTTGTCTGAAGGTT 381
Db  274 ACCAGCCAAACCACCAGCTGCAACTGACCACTGGCAATGGTCTGTTCATCAATGAGAGTG 333

Qy  382 TAAAATTGGTTGACAAATTCCTAGAAGACGTCAAGACTATATCATAGTGAGGCTTTTA 441
Db  334 CAAAGCTAGTGGATACGTTTTGGAGGATGTCAAGAACCTGTATCACTCCGAAGCCTTCT 393

Qy  442 CCGTTAATTTGGTGATACTGAGGAAGCTAAAAAGCAAATTAATGATTATG 492
Db  394 CCATCAACTTCAGGGATGCTGAGGAGGCCAAGAAGAGATCAACGATTATG 444
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